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by light source

Rev D 11/18/01

TO220T "DSE-HFQDT"

Light Source Emiss Wave Wavelength Region Intensity

3M Deluxe Transparency Maker Light Source	400 - 1200	E,F,G,H,I,J,K
558nm LED arrays	500 - 600	F,G
569nm LED arrays	550 - 600	G
590nm LED arrays	550 - 650	G,H
602nm LED arrays	570 - 700	H
615nm LED arrays	600 - 650	H
637nm LED arrays	600 - 700	H,I
644nm LED arrays	600 - 700	H,I
Bluepoint	300 - 600, 940 - 1150	C,D,E,F,G
Dental 3M-ESPE Elipar Trilight	400-500	D,E
Dental 3M-ESPE Freelight LED	430-515	E
Dental 3M LED Prototype	450-520	D,E,F
Dental Akeda LUX-O-MAX LED	420 - 560	D,E,F
Dental Apollo 95E Arc	440 - 520	E
Dental Apollo E LED	420 - 550	E,F
Dental Blue Light	400 - 500	D,E
Dental LaserMed Accucure 3000 Laser	460 - 510	E
Dental Yellow Light	370 - 800, 950 - 1100	E,F,G,H,I,J,K
Flood Lamp	350 - 1200	D,E,F,G,H,I,J,K
Fusion D Bulb	300 - 450, 500 - 600	B,C,D,F,G
Fusion H Bulb	250 - 450, 550 - 600	A,B,C,D,G
Fusion Q Bulb		
Fusion V Bulb	400 - 450, 550 - 600	D,G
General Electric Blacklight (black)	350 - 400	C
General Electric Blacklight (white)	350, 400, 435, 545	C
General Electric Cool Light	400 - 700, > 960	F,G,H
General Electric Daylight	390 - 700	D,E,F,G,H
General Electric Germicidal	253	A
Gro & Sho Plant Light	400 - 700	D,E,F,G,H,I
Kodak Carousel 5200 Projector	450 - 700, 950 - 1100	E,F,G,H,I,J,K
Kodak Carousel 5600 Projector	450 - 750, 950 - 1100	E,F,G,H,I,J,K
Lesco Light (with new filter)	300 - 650	B,C,D,E,F,G,H
Lesco Light (with old filter)	285 - 500, 570 - 600	B,C,D,E,G
NIS Black Light Blue	300 - 400	B,C
PDSC 2920 200W Hg Light	300 - 450, 550 - 600	B,C,D,G
PDSC 930 200W Hg Light	300 - 600	B,C,D,E,F,G
Philips 3000K Ultralume	400 - 650, 970 - 1000, 1080 - 1100	D,E,F,G,H,K

Figure 1

Rec'd 9/13/01

FOOTNOTES

Name	Solvent Used	Curing Mechanism	Abs. Wavelength (nm)	Wavelength Region (nm)	Lambda max Ext. Coef (W%)	Real Ext. (l/mol cm)
Initiator						
6 methyl 2,4 bistrichloro methyl s triazine	Acetonitrile	R	<350	A,B	272	13
CD 1010 (triarylsulfonium SbF6)	Acetonitrile	C	<350	A,B	300	80
CD1011 (triarylsulfonium PF6)	Acetonitrile	C	<350	A,B	300	100
CD1012 (diaryliodonium SbF6)	Acetonitrile	C	<330	A	250	150
CpFe (benzene) PF6	Acetonitrile	C	<350	A,B,C,D,E,F	240	258
CpFe (durene) SbF6	Acetonitrile	C	<350	A,B,C,D,E	244	184
CpFe (HEB) SbF6	Acetonitrile	C	<350	A,B,C,D,E,F	324	13
CpFe (Mes) PF6	Acetonitrile	C	<350	A,B	244	231
CpFe (Mes) SbF6	Acetonitrile	C	<350	A,B	244	188
CpFe (Nap) SbF6	Acetonitrile	C	<400	A,B,C,D,E,F,G	220	400
CpFe (pyrene) SbF6	Acetonitrile	C	<500	A,B,C,D,E,F,G	334	295
CpFe (toluene) PF6	Acetonitrile	C	<350	A,B,C,D,E	242	257
CpFeXyl CF3SO3	Acetonitrile	C	<350	A,B,C,D,E	242	278
CpFeXyl PF6	Acetonitrile	C	<350	A,B,C,D	242	254
CpFeXyl SbF6	Acetonitrile	C	<350	A,B,C,D	242	205
Darocur 4265	Acetonitrile	R	<400	A,B,C	380	6
Irgacure 1300	Acetonitrile	R	<400	A,B,C	320	141
Irgacure 1700	Acetonitrile	R	<430	A,B,C	390	1.3
Irgacure 184	Acetonitrile	R	<370	A,B	326	3.5
Irgacure 261	Acetonitrile	C	<500	A,B,C,D,E	388	2
Irgacure 2959	Acetonitrile	R	<300	A	272	481
Irgacure 369	Acetonitrile	R	260 - 400	A,B,C	320	456
Irgacure 651	Acetonitrile	R	312 - 394	A,B,C	342	8
Irgacure 784	Acetonitrile	R	<550	A,B,C,D,E	395	19
Irgacure 819	Acetonitrile	R	<450	A,B,C,D	370	17
Irgacure 907	Acetonitrile	R	250 - 350	A,B	304	492
KB1	Acetonitrile	R	312 - 394	A,B,C	342	8
KI 85 (Purified triarylsulfonium PF6)	Acetonitrile	C	<350	A,B	290	56
Triphenylsulfonium SbF6	Acetonitrile	C	<350	A,B	300	183
Tris (N-itoso-n-phenylthioxyamine)	Acetonitrile	R	350 - 500	A,B,C,D,E	350	36
XL 353 (triazine)	Acetonitrile	R	270 - 400	A,B,C	352	280
Sensitizer						
4-Benzophenonethiol	Acetonitrile	R	<350	A,B	294	640
4,5-Dibromofluorescein	Acetonitrile	C,R	500 - 550	E,F	540	131
4,5,6,7-Tetrachlorofluorescein in DI water	DI water	R,C	400 - 540	D,E,F	500	8277
52926-36A (Cyanine Dye)	Acetonitrile	R,C	450 - 600	F	554	15,415
53968-41 (Cyanine Dye)	Acetonitrile	R,C	500 - 700	F,G,H,I	650	2511
53968-42 (Quinoline Dye)	Acetonitrile	R,C	500 - 750	G,H,I,J,K	604,704	3772
9 - Fluorenone	Acetonitrile	C,R	<320	B,C	296	417,382
Acridine Orange, hydrochloride hydrate	Acetonitrile	C,R	400 - 550	D,E	494	266
Acridine hydrochloride	Acetonitrile	C,R	400 - 500	D,E	458	1439
Azure A	Acetonitrile	C,R	500 - 700	G,H,I	630	615
Azure B	DI water	R,C	450 - 700	G,H,I	600,650	1346
Azure C	Acetonitrile	C,R	500 - 650	G,H	608	1200
						26949

Figure 2

Curing Resource Center
*Integrated Solutions to
Customer's Curing Needs*

- Home
- Interactive Photo Curing System
- Technical Notes
- Contacts

Views By Name

- Substrates
- Substrates (by Color)
- Light Sources
- UV Stabilizers

Wavelength Region Views

- Combined
- Photo Initiators
- Substrates
- UV Stabilizers
- Light Sources

UV Stabilizer

Collapse **Expand**

Name	Solvent Used	Abs. Wavelength (nm)	Wavelength Region	lambda max (nm)	Ext. Coef (W%)	Real Ext. (Umol cm)
<input type="checkbox"/> Cyasorb UV9	Acetonitrile	<380	A,B,C	288		495
<input type="checkbox"/> Cytec 1164	Acetonitrile	<380	A,B,C	292		584
<input type="checkbox"/> Cytec 3381	Acetonitrile	<260	A	204		227
<input type="checkbox"/> Cytec 3604	Acetonitrile	<270	A	204		220
<input type="checkbox"/> Norbloc 7966	Acetonitrile	<380	A,B,C	336		470
<input type="checkbox"/> Tinuvin 1130	Acetonitrile	<400	A,B,C	340		190
<input type="checkbox"/> Tinuvin 144	Acetonitrile	<300	A	276		16.7
<input type="checkbox"/> Tinuvin 292	Acetonitrile	<270	A	208		36
<input type="checkbox"/> Tinuvin 384	Acetonitrile	<400	A,B,C	340		253
<input type="checkbox"/> Tinuvin 770DF	Acetonitrile	<260	A	208		43
<input type="checkbox"/> Tinuvin 900	Acetonitrile	<400	A,B,C	342		272
<input type="checkbox"/> Tinuvin P	Acetonitrile	380	A,B,C	340		517
<input type="checkbox"/> UV-24	Acetonitrile	<400	A,B,C	286		350
<input type="checkbox"/> Uvinul 4050H	Acetonitrile	<260	A	206		280

Next **Previous**

Select Next or Previous to view additional Substrates, Photoinitiators or Light Sources.

Figure 2A

Figure 3

Substrate Tested	Color of Substrate	Thickness	Transmission Wave Wavelength Region (nm)
3M Microflex 8025-1115 80-6104-6609-8	orange,Cu traces	2-2.8 mil	> 465 F,G,H,I,J,K
ABS (Sample 1)	cream,opaque	0.13	> 400 E,F,G,H,I,J,K
ABS (sample 2)	cream,opaque	0.122	> 400 F,G,H,I,J,K
Acrylic	colorless,clear	0.111	> 370 D,E,F,G,H,I,J,K
Al CD disk (40nm)	reflected mirror	40 nm	> 300 B,C,D,E,F,G,H,I,J,K
Al CD disk (45nm)	reflected mirror	45 nm	> 300 B,C,D,E,F,G,H,I,J,K
Al CD disk (50nm)	reflected mirror	50 nm	> 300 B,C,D,E,F,G,H,I,J,K
Al on BET	reflected mirror	3 mil	> 320 B,C,D,E,F,G,H,I,J,K
Alumina	opaque white	0.034	> 330 C,D,E,F,G,H,I,J,K
BT Epoxy	opaque brown	0.063	> 520 G,H,I,J,K
Canvas	natural	32 mil	> 400 D,E,F,G,H,I,J,K
Diamond Grade Sheeting	reflected mirror	22 mil	> 400 D,E,F,G,H,I,J,K
FR4 with green solder mask	green	0.062	> 400 E,F,I,J,K
GFRP precision punch	light yellowish-green,translucent	0.135	> 360 D,E,F,G,H,I,J,K
GFRP (FR4)	light yellowish-green,translucent	0.067	> 360 D,E,F,G,H,I,J,K
Glass slide	clear,colorless	0.222	> 310 C,D,E,F,G,H,I,J,K
Halar ethylene-chlorotrifluoroethylene ECTFE film	hazy colorless (off-white)	19 mil	230 - 275,> 280 A,B,C,D,E,F,G,H,I,J,K
HDPE	white	0.127	> 280 B,C,D,E,F,G,H,I,J,K
Kapton	orange,transparent	0.6 mil	> 435 E,F,G,H,I,J,K
Kynar polyvinylidene fluoride PVDF film	hazy colorless	15 mil	> 200 A,B,C,D,E,F,G,H,I,J,K
Mirror Multi-layer film	reflected mirror	2 mil	> 200 A,B,C,D,K
Multi-layer film	multi color	2 mil	>200 B,C,D,E,H,I,J,K
One layer Security System card	opaque white	21 mil	> 400 D,E,F,G,H,I,J,K
PC	opaque white	15 mil	415 - 530,> 600 E,H,I,J,K
PC Hyzod FD-9200	colorless,clear	0.116	> 280 C,D,E,F,G,H,I,J,K
PC Lexan 9034	colorless,clear	0.119	> 390 D,E,F,G,H,I,J,K
PCB w/ green solder mask (spl 1)	green,no traces,board only	0.033	400 - 600,> 660 E,F,I,J,K
PCB w/ green solder mask (spl 2)	green	0.066	400 - 610,>660 E,F,I,J,K
PCB w/ green solder mask (spl 3)	green	0.066	400 - 600,> 660 E,F,J,K
PCB w/ green solder mask (spl 4)	green,ground plane stripes 1/4" across	0.066	400 - 600,> 660 E,F,G,J,K
PCB w/ green solder mask (spl 5)	green (yellowish tone)	0.063	> 450 E,F,G,J,K
PCB w/ green solder mask (spl 6)	green (bluish tone)	0.068	400 - 600,> 670 E,F,J,K
PETG	opaque white	22 mil	> 400 D,E,F,G,H,I,J,K
Polyimide	opaque dark brown	0.074	> 520 G,H,I,J,K
Polypropylene	translucent white	0.128	> 280 C,D,E,F,G,H,I,J,K
Teflon	opaque white	0.161	> 200 A,B,C,D,E,F,G,H,I,J,K
TPX polymethylpentene PMP film	hazy colorless	11 mil	230 - 275,> 280 A,B,C,D,E,F,G,H,I,J,K
Two layer Security System Card	opaque white	13 mil	> 420 D,E,F,G,H,I,J,K
Udel polysulfone Thermalux film	hazy colorless (off-white)	10 mil	> 310 C,D,E,F,G,H,I,J,K
UHMWPE	sl translucent white	0.14	> 280 C,D,E,F,G,H,I,J,K
Ultem 1000 polyetherimide sample 1	amber,transparent	0.13	> 415 E,F,G,H,I,J,K
Ultem 1000 polyetherimide sample 2	amber,transparent	0.122	> 430 E,F,G,H,I,J,K
Ultem Tempalux Film	amber,transparent	8 mil	> 400 D,E,F,G,H,I,J,K
Ultem (filled) Mint-Pac by Circuit Wise	amber,translucent	0.064	> 410 F,G,H,I,J,K
Ultrason E polyethersulfone PES film	hazy amber	10 mil	> 300 C,D,E,F,G,H,I,J,K
UVPS	orange,transparent	3 mil	310 - 400,> 470 F,G,H,I,J,K
Victrex PEEK Film polyetheretherketone	amber,hazy transparent	10 mil	> 390 D,E,F,G,H,I,J,K
Vinyl card	opaque white	30 mil	> 410 D,E,F,G,H,I,J,K
Vinyl film	clear	7.5 mil	> 380 D,E,F,G,H,I,J,K

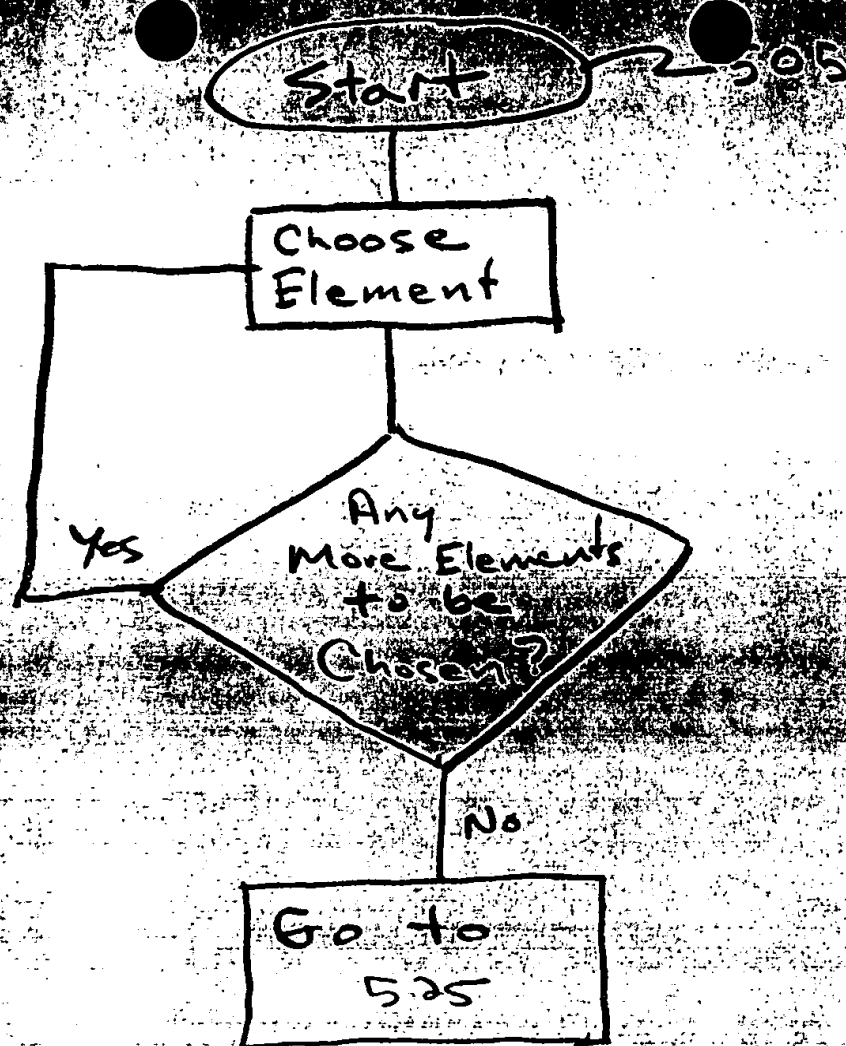


Figure 4A

From 520

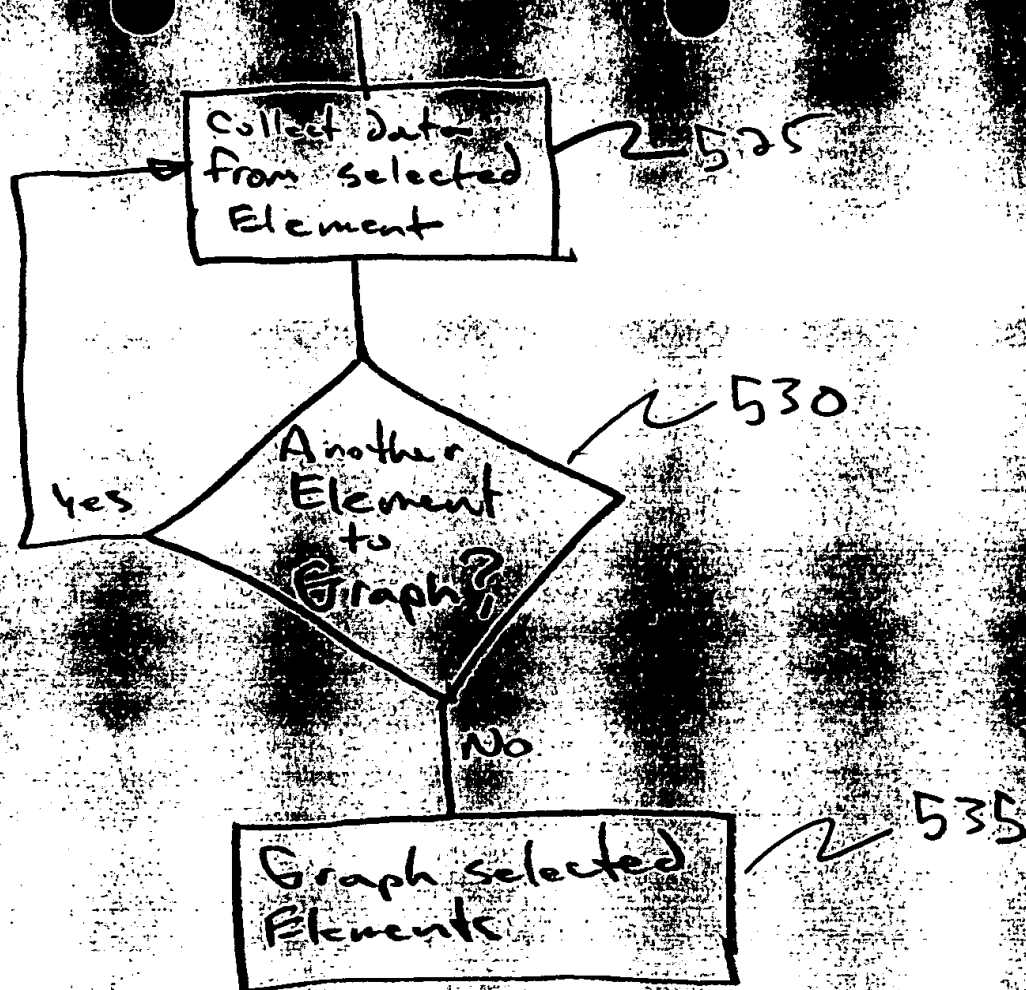


Figure 4B

10014350.102201

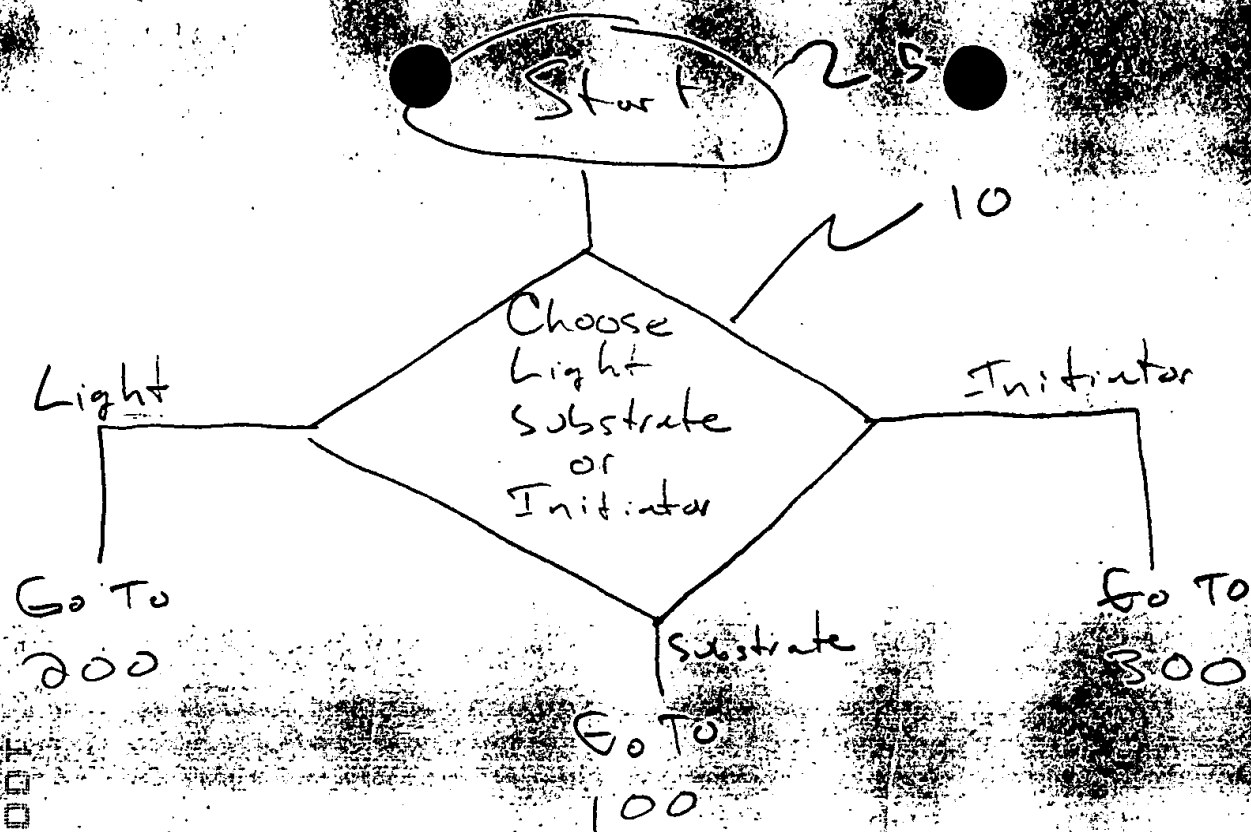


Figure 4G

10014390.102201

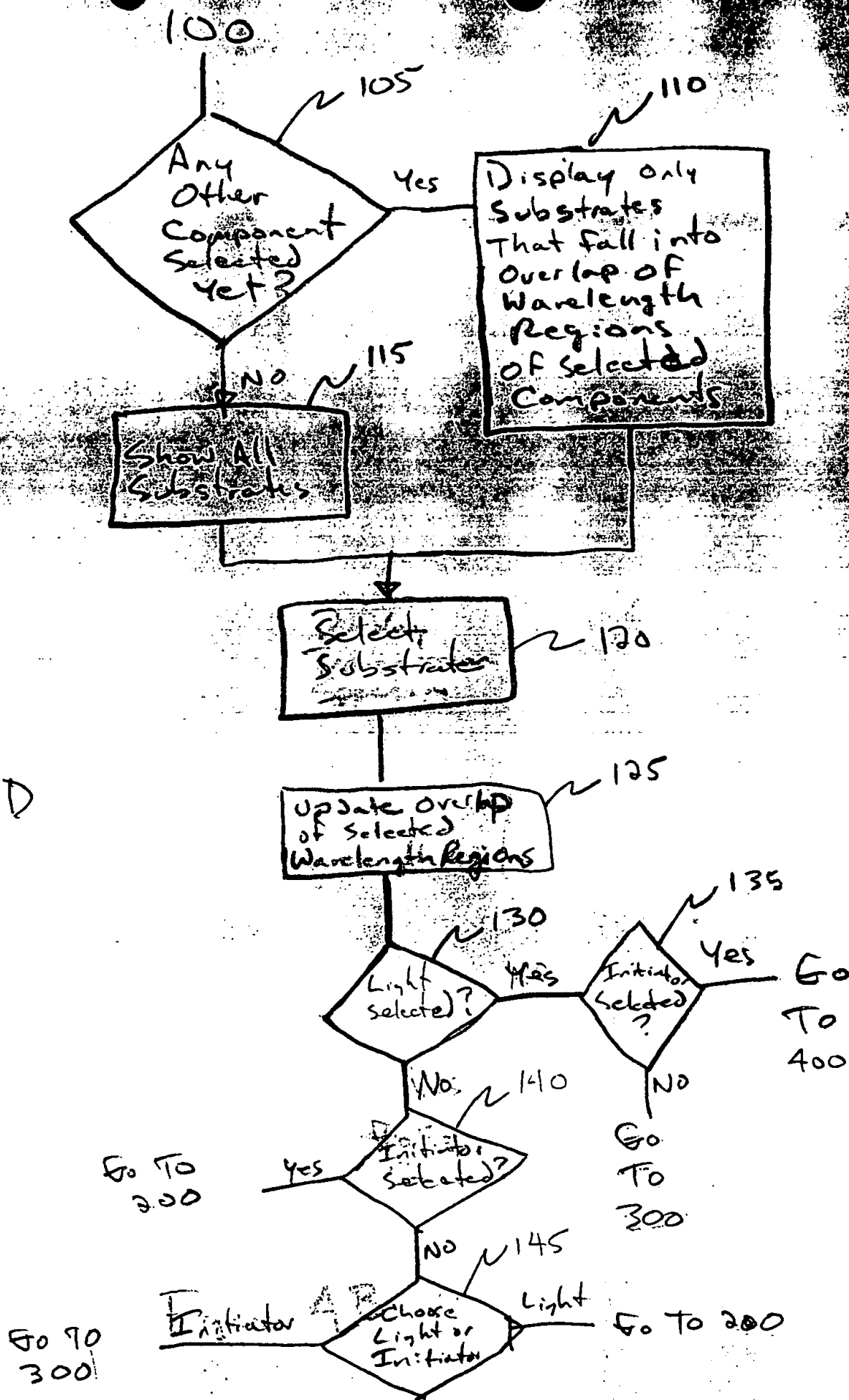


Figure 4D

10014350-102201

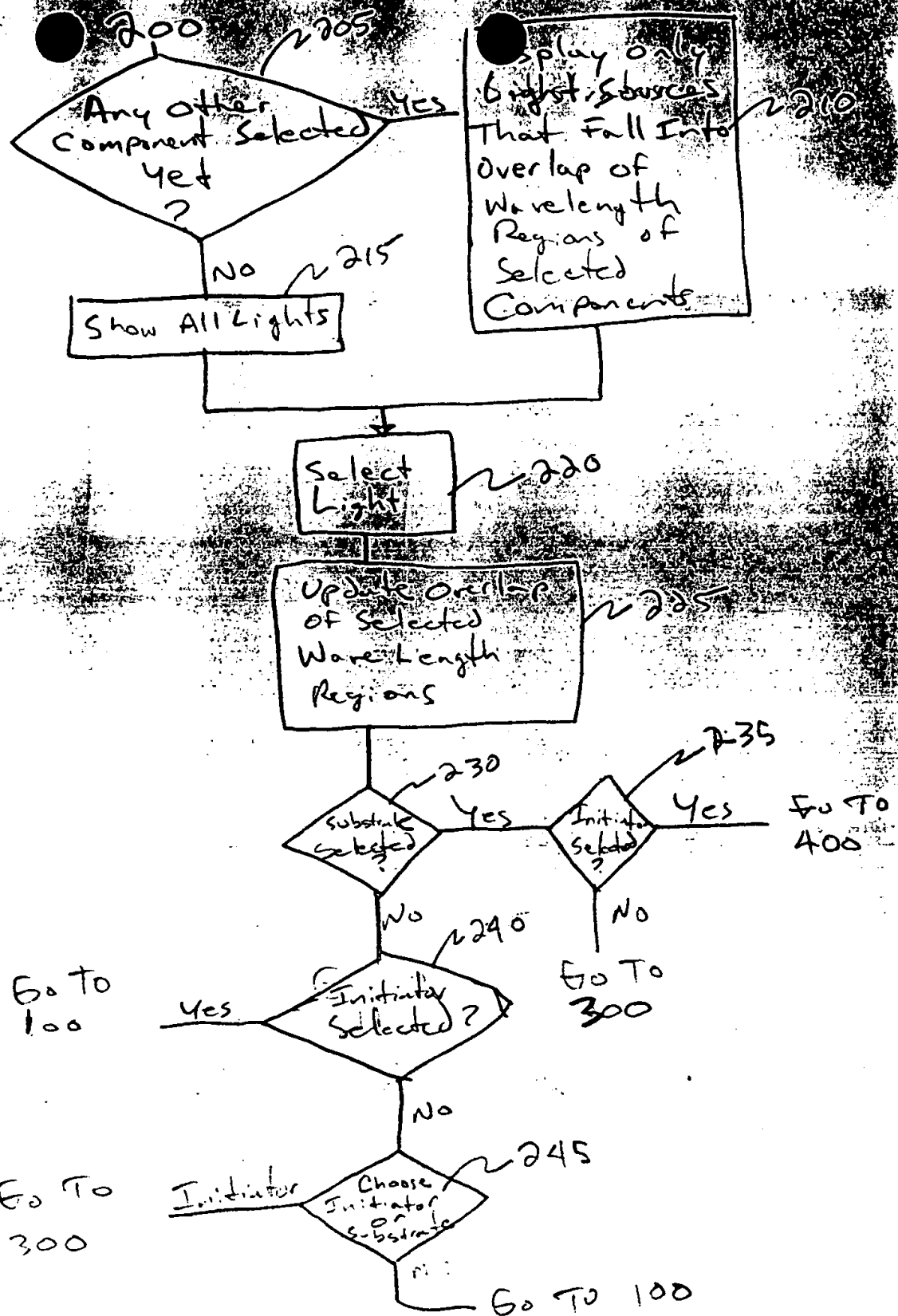
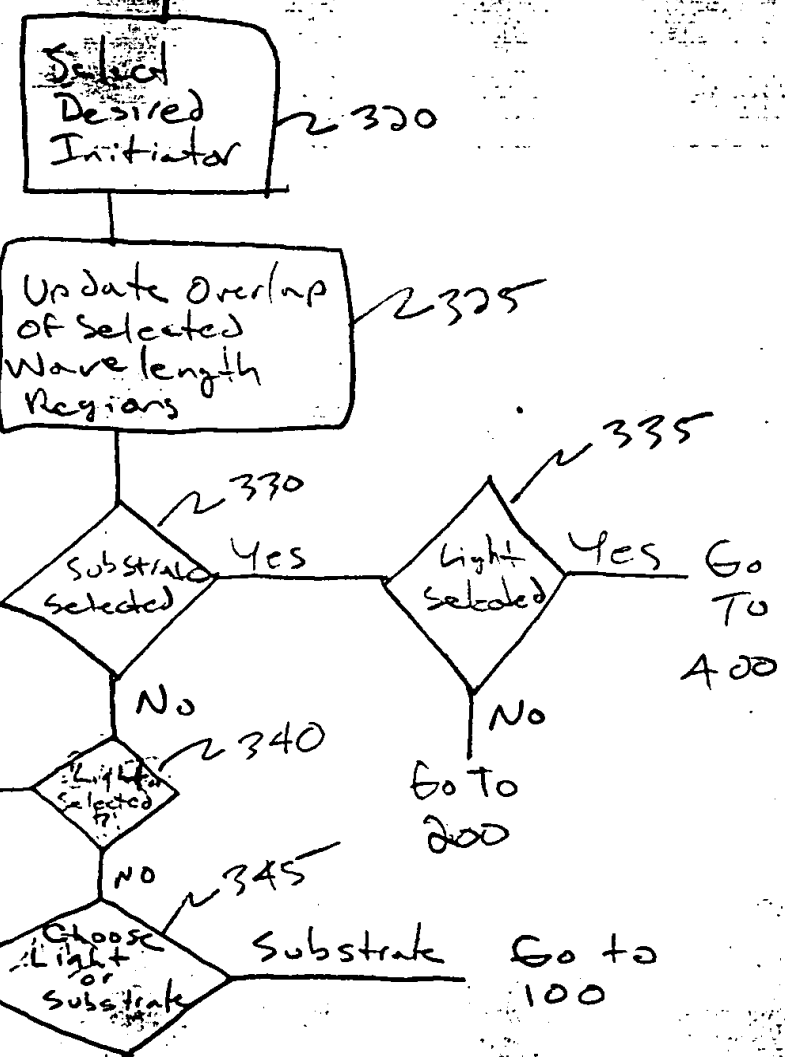
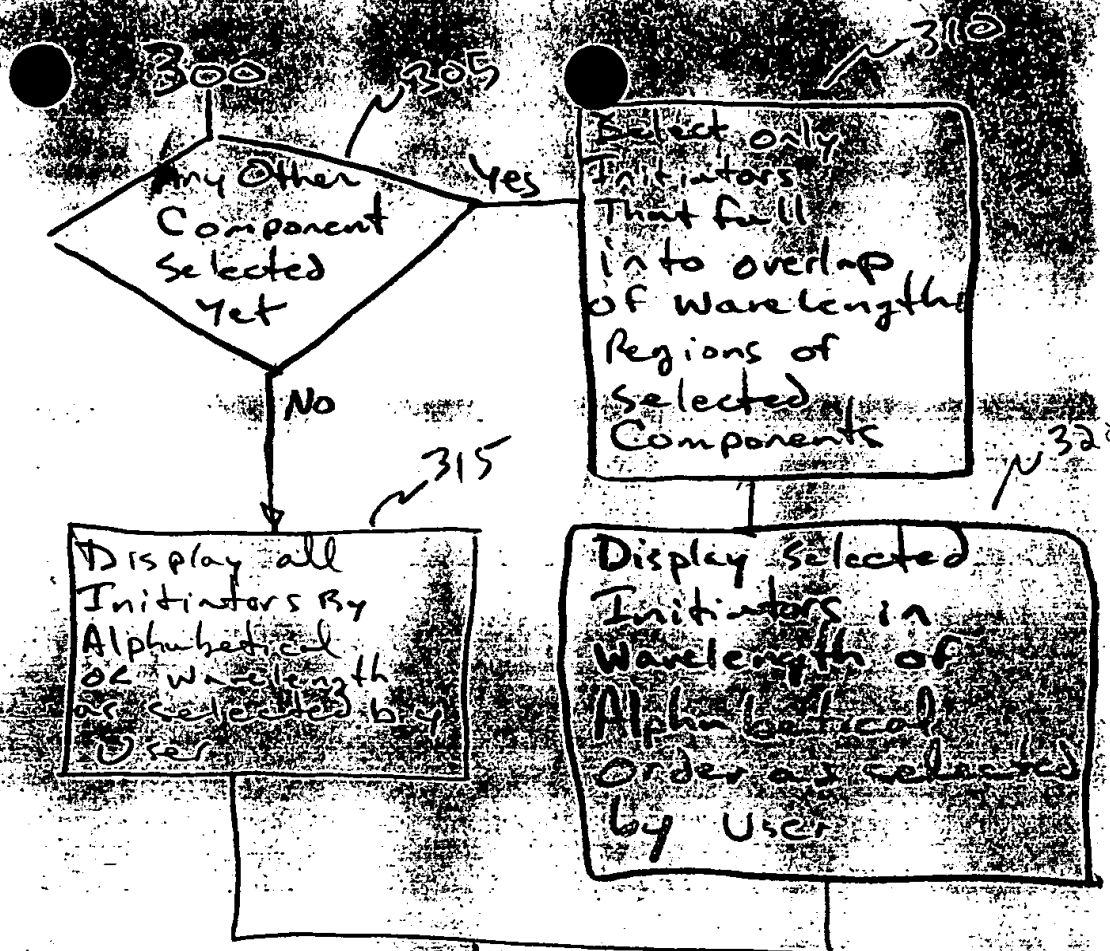


Figure 4E



10014390 102201

Figure 4F

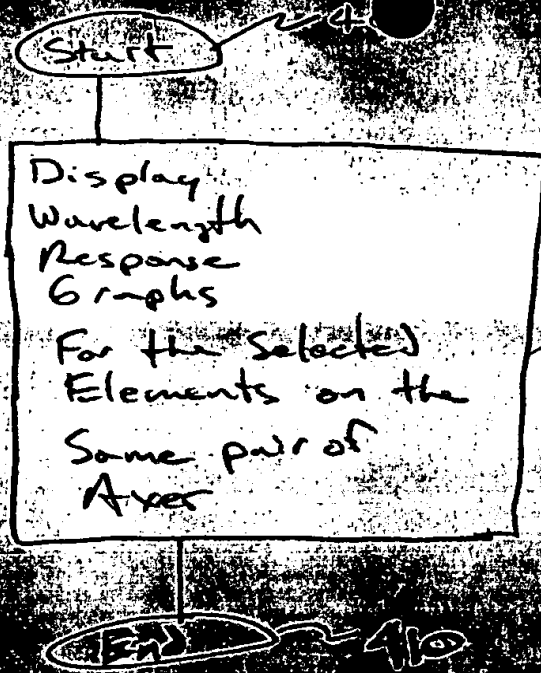


Figure 4

102201 06E1012

Rec'd 9/18/01

Figure

5 A

Light Source Profile

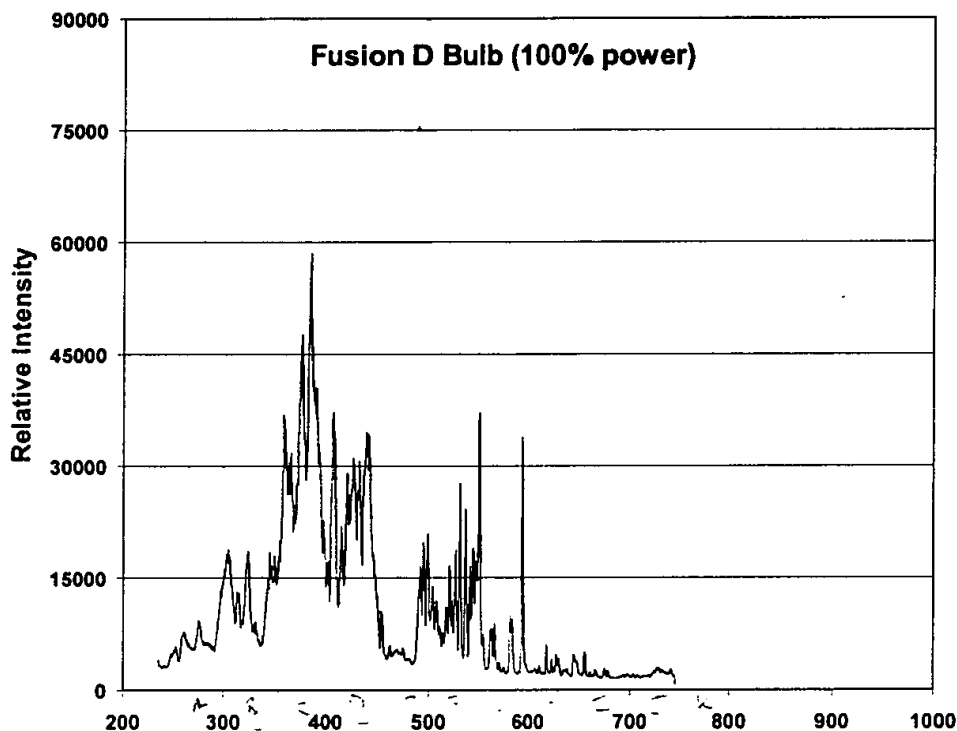
Light Sources: Fusion D Bulb
Emiss. Wavelength 300 - 450, 500 - 600
(nm)
Wavelength B, C, D, F, G
Region:
Intensity:
Notes:

Picture of Light Source:



Fusion D 100.xls

Emiss Spectrum:



Emiss Data (Enter data from frequencies 200 - 1000 only. Enter data separated by a comma and one space (i.e. 12.3, 32.1):

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Figure 5B

10014390 102201

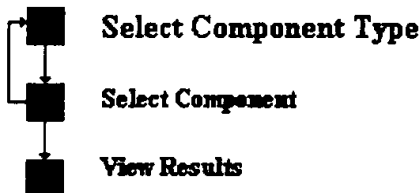
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 2245, 2325, 2618, 3094, 4608, 7038, 9809, 9256, 8168, 7658, 9506, 9386, 7974, 5282, 3914,
 3048, 2728, 2434, 2267, 2165, 2117, 2082, 2090, 2154, 2325, 2431, 2442, 2341, 2570, 4994,
 14391, 25815, 33966, 26880, 18101, 9642, 6346, 4439, 3810, 3384, 3298, 2949, 2762, 2582,
 2538, 2421, 2346, 2283, 2314, 2362, 2487, 2516, 2430, 2314, 2389, 2494, 2538, 2549, 2858,
 2946, 2746, 2373, 2192, 2132, 2143, 2229, 2626, 3104, 3296, 2775, 2538, 2360, 2226, 2154,
 2208, 2277, 2250, 2117, 2074, 2058, 2325, 3768, 6077, 5973, 4408, 3029, 2512, 2293, 2274,
 2266, 2250, 2218, 2666, 3551, 4157, 3354, 2730, 2346, 2443, 2582, 2965, 3861, 4736, 3786,
 3232, 3476, 4256, 4042, 3410, 2826, 2420, 2106, 1987, 1930, 1914, 2173, 2623, 2650, 2427,
 2474, 2672, 2426, 2338, 2629, 2846, 2424, 2101, 2018, 2042, 1989, 1839, 1786, 1759, 1838,
 2236, 3274, 4650, 4714, 4362, 3770, 3722, 3586, 3792, 3640, 3397, 2626, 2215, 2034, 1989,
 2000, 2010, 1989, 1930, 1914, 1925, 2466, 4258, 5162, 4202, 2839, 2208, 1899, 1771, 1749,
 1722, 1749, 1911, 2314, 2416, 2037, 1794, 1781, 1876, 1953, 1867, 1853, 2191, 2741, 2720,
 2209, 2001, 1925, 1770, 1685, 1623, 1663, 1642, 1653, 1589, 1578, 1550, 1704, 1789, 1866,
 2402, 2986, 2730, 2128, 1786, 1727, 2026, 2501, 2464, 2050, 1784, 1658, 1570, 1621, 1599,
 1643, 1685, 1704, 1605, 1579, 1493, 1525, 1494, 1576, 1568, 1605, 1598, 1653, 1674, 1770,

1727, 1698, 1672, 1725, 1754, 1834, 1863, 1994, 2074, 1930, 1717, 1666, 1674, 1885, 2082,
2154, 2026, 1890, 1834, 1823, 1754, 1706, 1616, 1691, 1773, 1794, 1821, 1994, 2069, 1973,
1751, 1672, 1599, 1722, 1898, 1936, 1825, 1834, 1759, 1685, 1599, 1642, 1662, 1781, 1823,
1768, 1706, 1824, 1856, 1909, 1882, 1826, 1813, 1839, 1820, 1914, 1985, 1909, 1751, 1678,
1674, 1882, 2042, 2069, 1962, 2042, 2298, 2423, 2538, 2424, 2256, 2199, 2421, 2698, 2901,
2794, 2691, 2722, 2922, 2565, 2261, 2239, 2559, 2672, 2751, 2626, 2389, 2250, 2394, 2453,
2365, 2152, 2026, 2143, 2330, 2282, 2175, 2069, 2000, 2104, 2421, 2735, 2880, 2708, 2536,
2209, 2042, 1985, 1884, 1818, 1738, 1661, 618

Maximum Frequency (Enter 1000 or smaller if the frequency range is less than 1000):
746

10014390 102201

Select a Substrate, Light Source, and/or Photo Initiator Type



This process allows you to select up to three components to view together. For each component, you must first select a component type. There are three types of components to select from (Substrate, Photo Initiator, or Light Source). After selecting the desired component type, you can then select a component of that type.

- Select the first component type from the drop-down list below and click the Next > button.

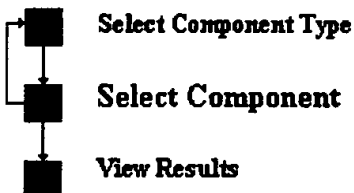
Select the first component type:

Substrate

Next >

Figure 6A

Select a Substrate, Light Source, and/or Photo Initiator



- If you want to view more components, select a component of the selected type from the drop-down list below and click the Next > button.

- If you want to view the current component(s), select a component of the selected type from the drop-down list below and click the Finish button.

- If you want to select a different component type, click the < Back button.

Select a Substrate:

B- Epoxy

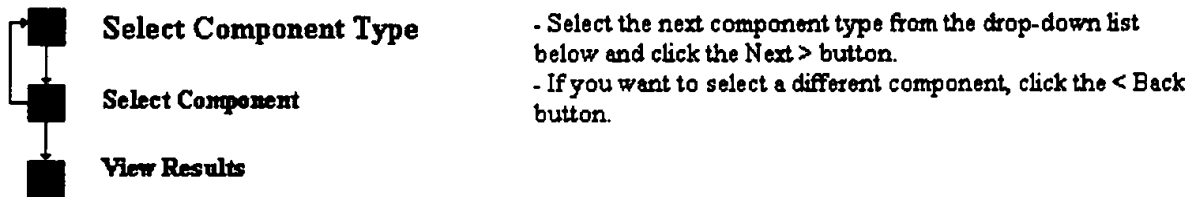
< Back

Next >

View Overlay

Figure 6B

Select a Substrate, Light Source, and/or Photo Initiator Type



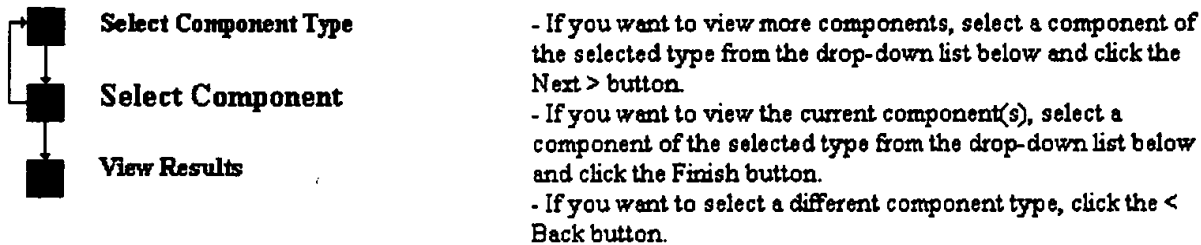
Select the second component type:

Component Type	Substrate
Component #1	Component #2

Figure 6C

Select a Substrate, Light Source, and/or Photo Initiator

10014390 102201 0641001

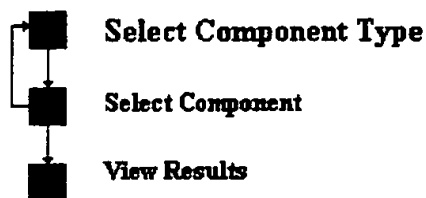


Select a Photo Initiator:

Component Type	Substrate
Component #1	Component #2

Figure 6D

Select a Substrate, Light Source, and/or Photo Initiator Type



- Select the next component type from the drop-down list below and click the Next > button.
- If you want to select a different component, click the < Back button.

Select the third component type:

Light Source

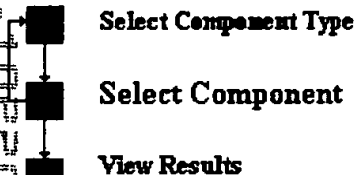
Component Type #1	Substrate
Component #1	BY Green
Component Type #2	Photo Initiator
Component #2	Orange Blue

< Back Next >

Figure 6E

Select a Substrate, Light Source, and/or Photo Initiator

100143501101201



- If you want to view more components, select a component of the selected type from the drop-down list below and click the Next > button.
- If you want to view the current component(s), select a component of the selected type from the drop-down list below and click the Finish button.
- If you want to select a different component type, click the < Back button.

Select a Light Source:

Ellegant

Component Type #1	Substrate
Component #1	BY Green
Component Type #2	Photo Initiator
Component #2	Orange Blue

< Back View Overlay

Figure 6F

SBC Curing Resource Center - Microsoft IE5.0/3M

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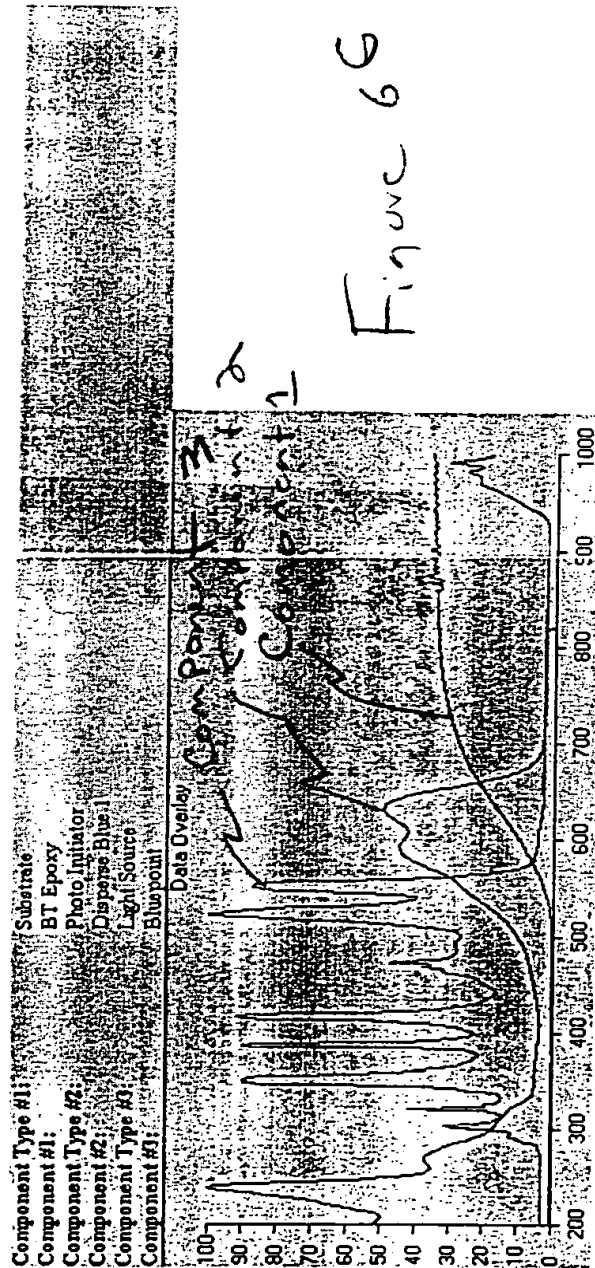
Combined	Substrates	Light Sources
Photo Initiators	UV Stabilizers	

Overlay Diagram

* To print, click on this frame first, then select "Print" from the "File" menu above. For best print results, use Internet Explorer.

The purpose of this overlay is to compare spectra and therefore the spectra have been scaled to achieve this. The transmittance of all substrates is scaled from 0-100%. In certain cases, the transmittance may appear to be nearly zero but not actually be zero. In such cases, it may be possible to select an appropriate light source to allow the transmittance of light. The absorbance spectra of photoinitiators/sensitizers have been scaled between 0-100 to allow comparison between the transmittance spectra of the substrate and the absorbance spectra of the photoinitiators/sensitizers. The spectra of the light sources are also scaled from 0-100.

NOTE: Source spectra is uncorrected. Please contact someone from the Curing Resource Center ("Contacts" to the left) if you need further information.



UV Stabilizers

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A

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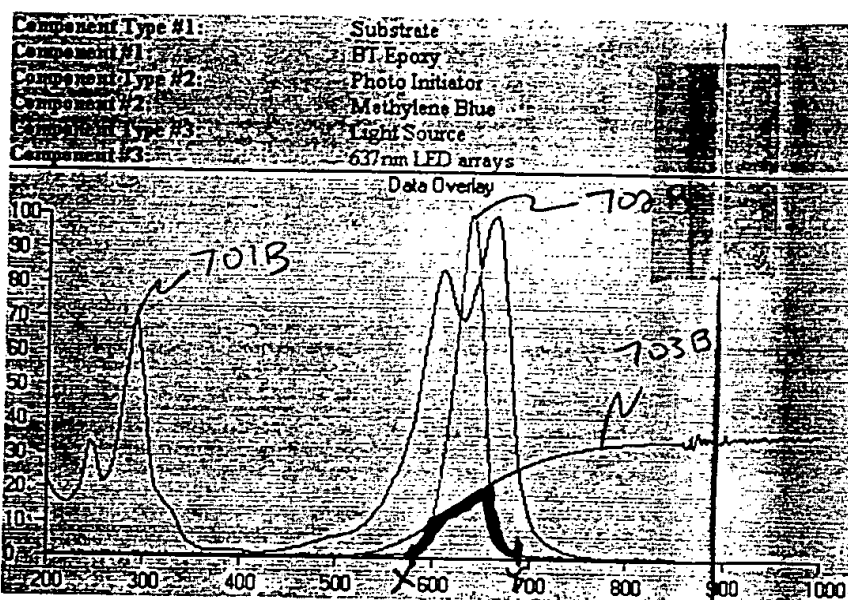
Photo Initiators UV Stabilizers

Overlay Diagram

* To print, click on this frame first, then select "Print" from the "File" menu above. For best print results, use Internet Explorer.

The purpose of this overlay is to compare spectra and therefore the spectra have been scaled to achieve this. The transmittance of the substrates is scaled from 0-100%. In certain cases, the transmittance may appear to be nearly zero but may not actually be zero. In some cases, it may be possible to select an appropriate light source to allow the transmittance of light. The absorbance spectra of photoinitiators/sensitizers have been scaled between 0-100 to allow comparison between the transmittance spectra of the substrates and the absorbance spectra of the photoinitiators/sensitizers. The spectra of the light sources are also scaled from 0-100.

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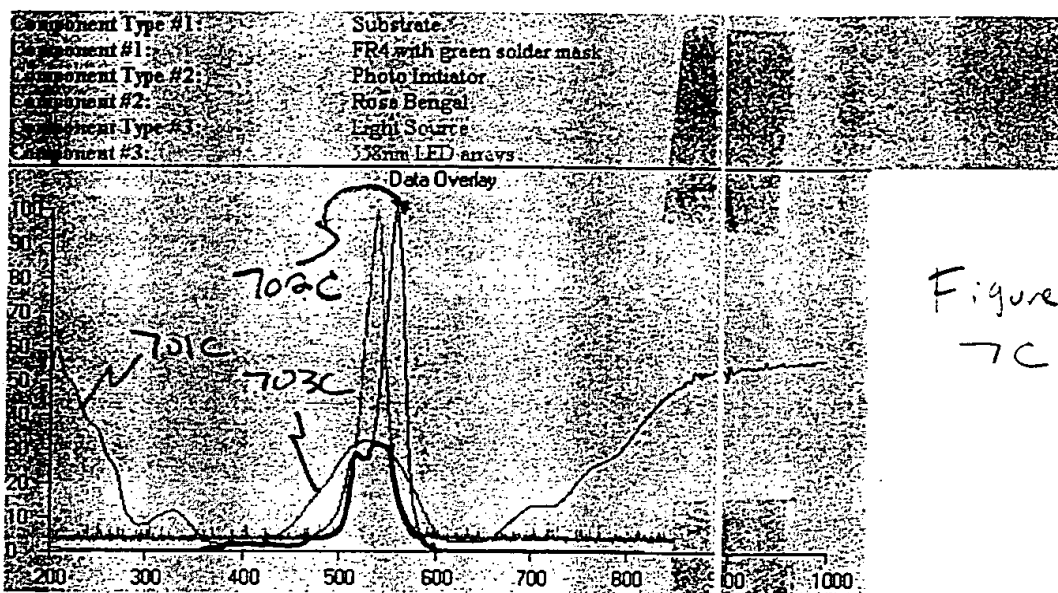
UV Stabilizers

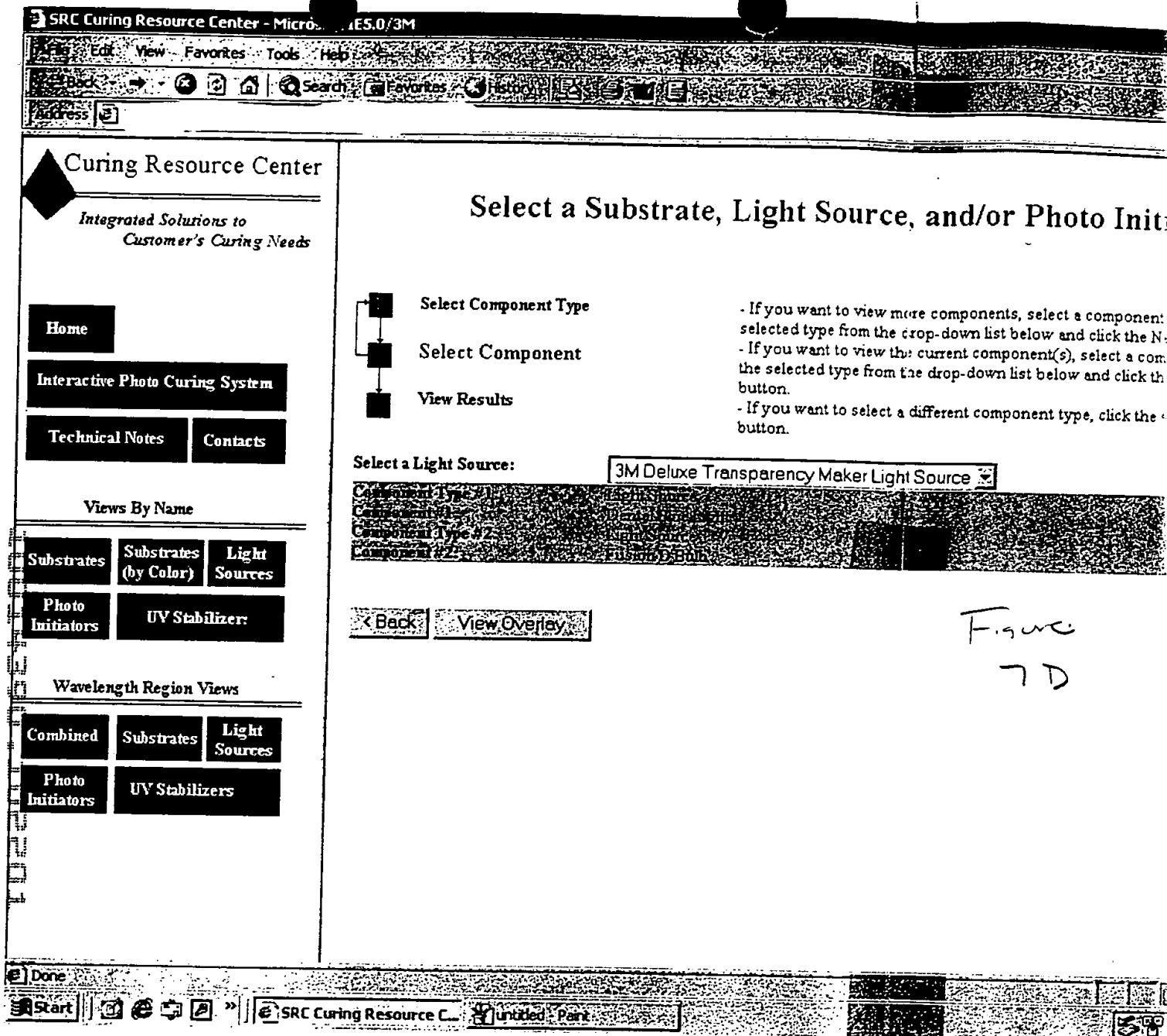
Overlay Diagram

* To print, click on this frame first, then select "Print" from the "File" menu above. For best print results, use

The purpose of this overlay is to compare spectra and therefore the spectra have been scaled to achieve this. The substrate is scaled from 0-100%. In certain cases, the transmittance may appear to be nearly zero but may not actually be. In certain cases, it may be possible to select an appropriate light source to allow the transmittance of light. The absorbance of photoinitiators/sensitizers have been scaled between 0-100 to allow comparison between the transmittance spectra and the absorption spectra of the photoinitiators/sensitizers. The spectra of the light sources are also scaled from 0-100.

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To print, click on this frame first, then select "Print" from the "File" menu above. For best print results, use

The purpose of this overlay is to compare spectra and therefore the spectra have been scaled to achieve this. The substrate is scaled from 0-100%. In certain cases, the transmittance may appear to be nearly zero but may not actually be zero. In some cases, it may be possible to select an appropriate light source to allow the transmittance of light. The absorbance spectra of photoinitiators/sensitizers have been scaled between 0-100 to allow comparison between the transmittance spectra and the absorption spectra of the photoinitiators/sensitizers. The spectra of the light sources are also scaled from 0-100.

NOTE: Source spectra is uncorrected. Please contact someone from the Curing Resource Center ("Contacts" to the left) for further information.

Component Type #1:

Component #1:

Component Type #2:

Component #2:

Component Type #3:

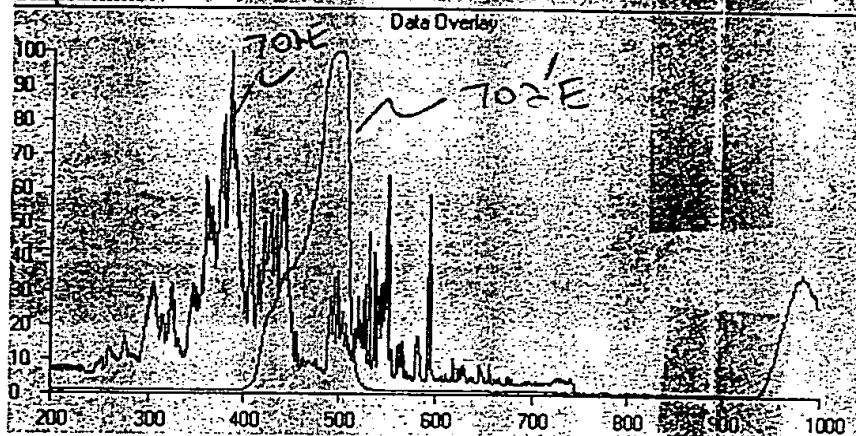
Component #3:

Light Source:

Dental Blue Light

Light Source:

Fusion D Bulb



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* To print, click on this frame first, then select "Print" from the "File" menu above. For best print results, use a laser printer.

The purpose of this overlay is to compare spectra and therefore the spectra have been scaled to achieve this. The substrate is scaled from 0-100%. In certain cases, the transmittance may appear to be nearly zero but may not actually be. It may be possible to select an appropriate light source to allow the transmittance of light. The absorbance of photoinitiators/sensitizers have been scaled between 0-100 to allow comparison between the transmittance spectra and the absorption spectra of the photoinitiators/sensitizers. The spectra of the light sources are also scaled from 0-100.

NOTE: Source spectra is uncorrected. Please contact someone from the Curing Resource Center ("Contacts" to the left) for further information.

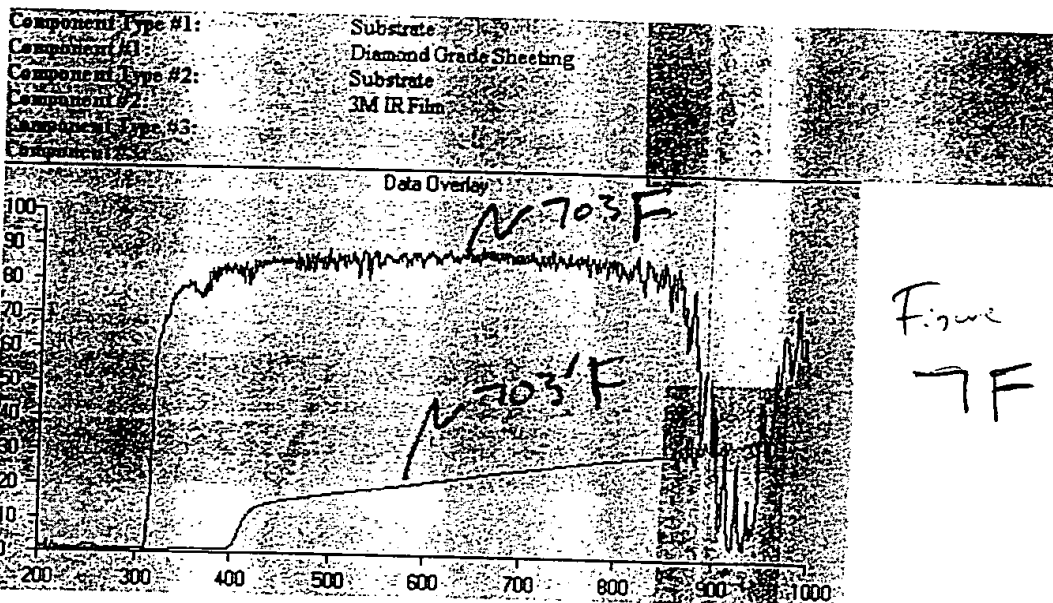


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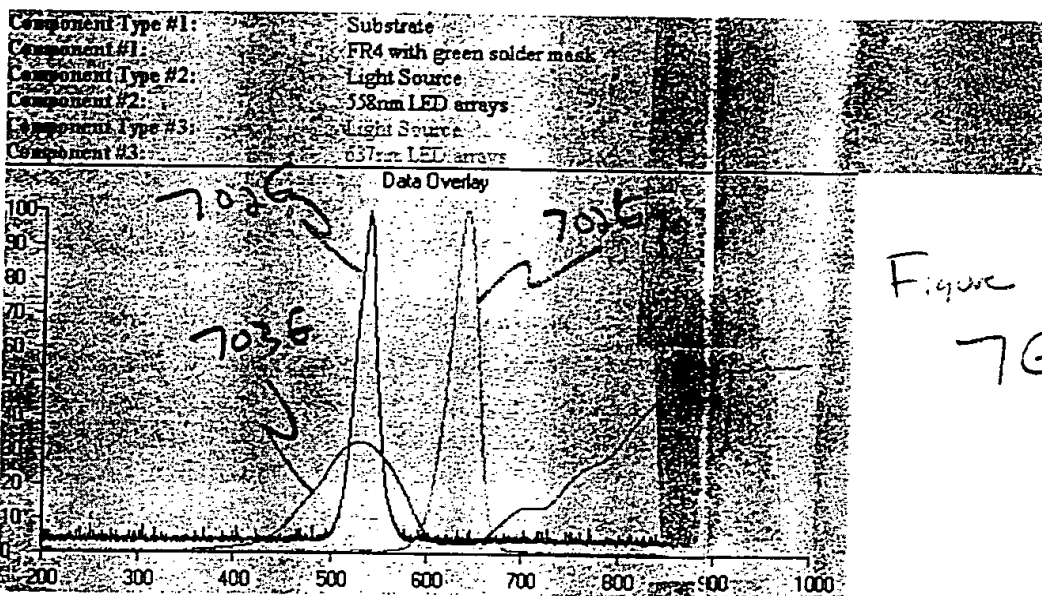
UV Stabilizers

Overlay Diagram

To print, click on this frame first, then select "Print" from the "File" menu above. For best print results, use

The purpose of this overlay is to compare spectra and therefore the spectra have been scaled to achieve this. The substrate is scaled from 0-100%. In certain cases, the transmittance may appear to be nearly zero but may not actually be. In other cases, it may be possible to select an appropriate light source to allow the transmittance of light. The absorbance spectra of photoinitiators/sensitizers have been scaled between 0-100 to allow comparison between the transmittance spectra and the absorbance spectra of the photoinitiators/sensitizers. The spectra of the light sources are also scaled from 0-100.

NOTE: Source spectra is uncorrected. Please contact someone from the Curing Resource Center ("Contacts" to the left) for further information.



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Photo Initiator Profile

CD1012 (diaryliodonium SbF₆)

Initiator

Solvent Used:
Acetonitrile

Name:

Type:

Solvent Used:

% Purity:

Curing Mechanism:

Wavelength Region:

Abs. Wave.(nm):

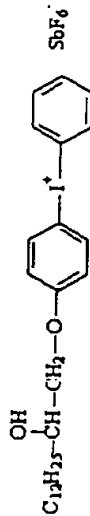
Lambda max (nm):

Ext. coef (W%):

Real Ext (l/mol cm):

Notes:

Picture of Photo Initiator

CD1012 (Iodonium SbF₆) in Acetonitrile.xls

Abs. Spectrum:

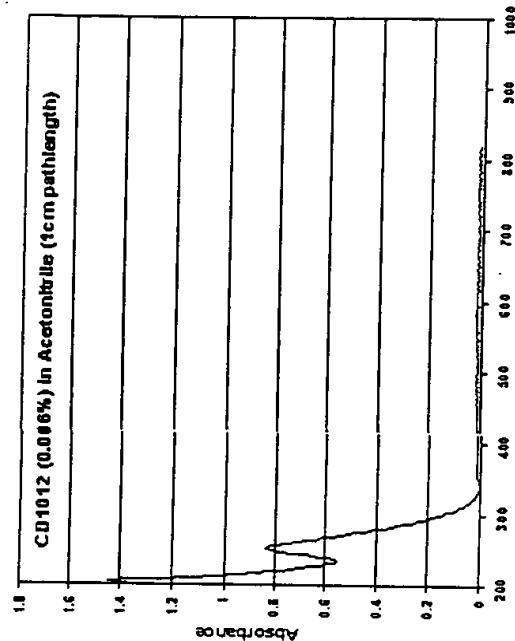


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PO220T Light Source Profile

Light Sources: Bluepoint
Emisr. Wavelength 300 - 600, 940 - 1150
(nm)
Wavelength Region: C, D, E, F, O
Intensity:
Notes:

[Picture of Light Source](#)



bluepoint light source.xls

Emisr Spectrum:

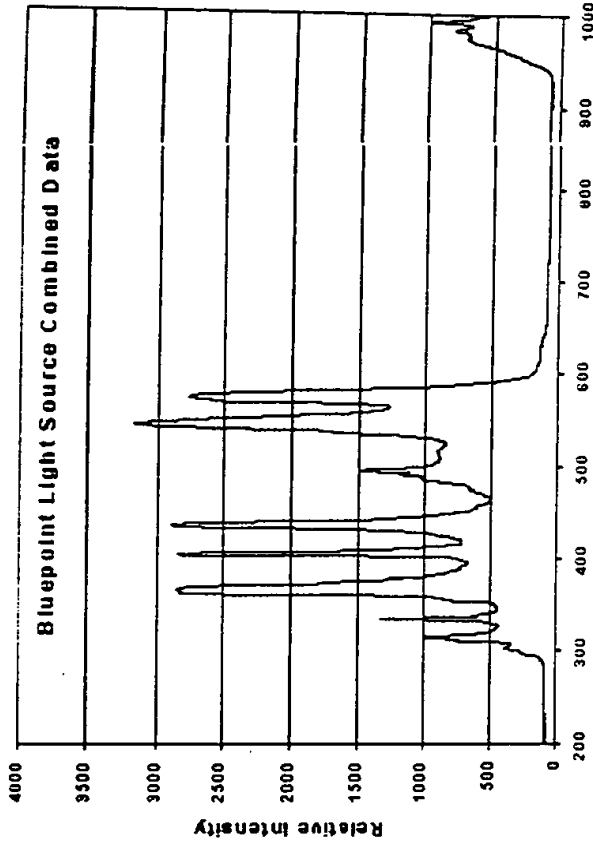


Figure II

Figure II

Figure II

10014390.102201

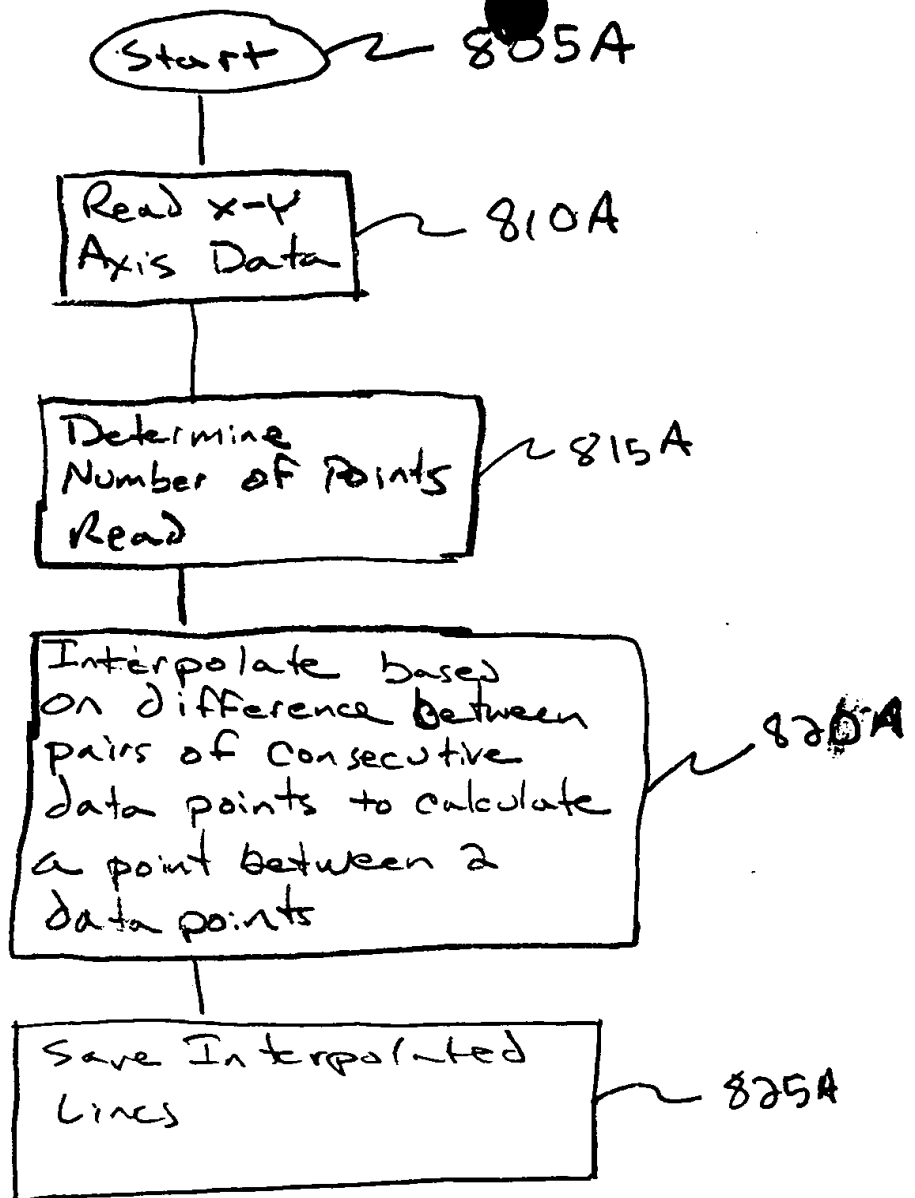


Figure 8A

Baseline

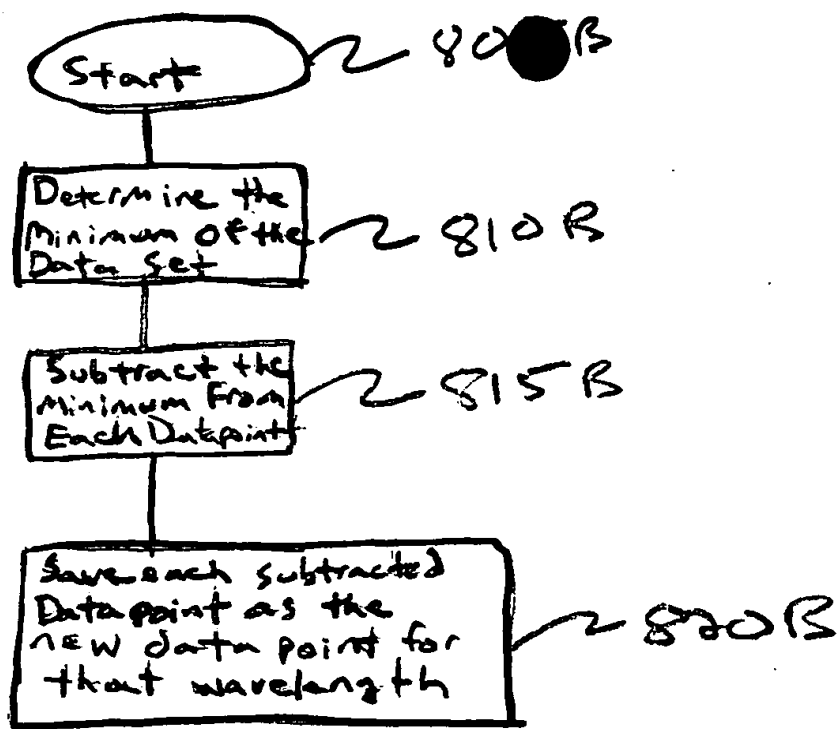


Figure 8B

10014390-102201

Norm

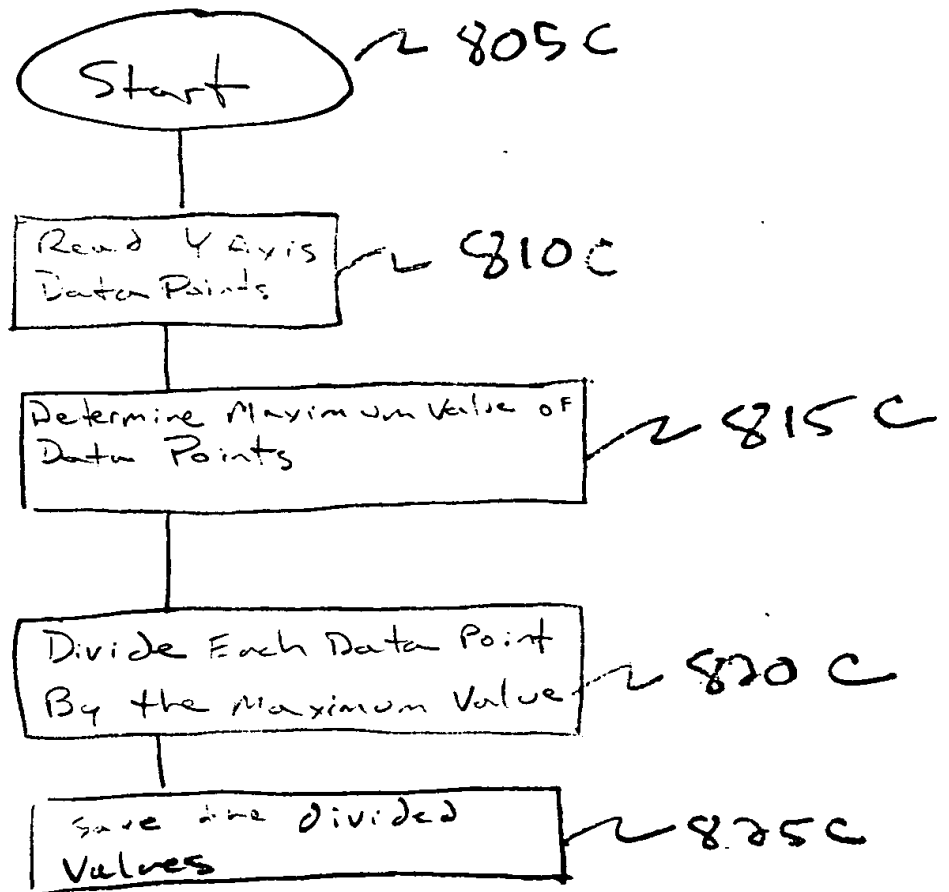


Figure 8C

10014390 102201

Integrate

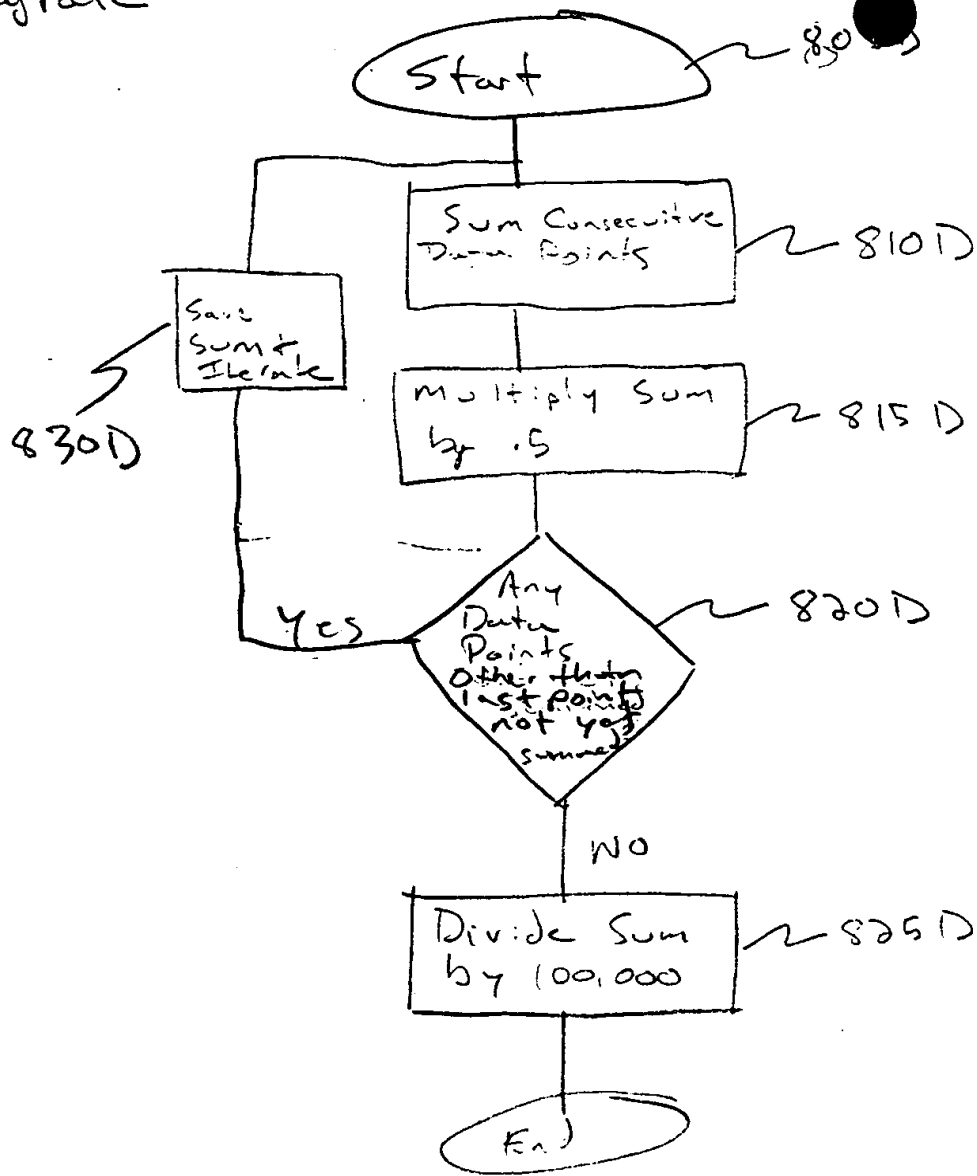


Figure 8D

10014390 102201

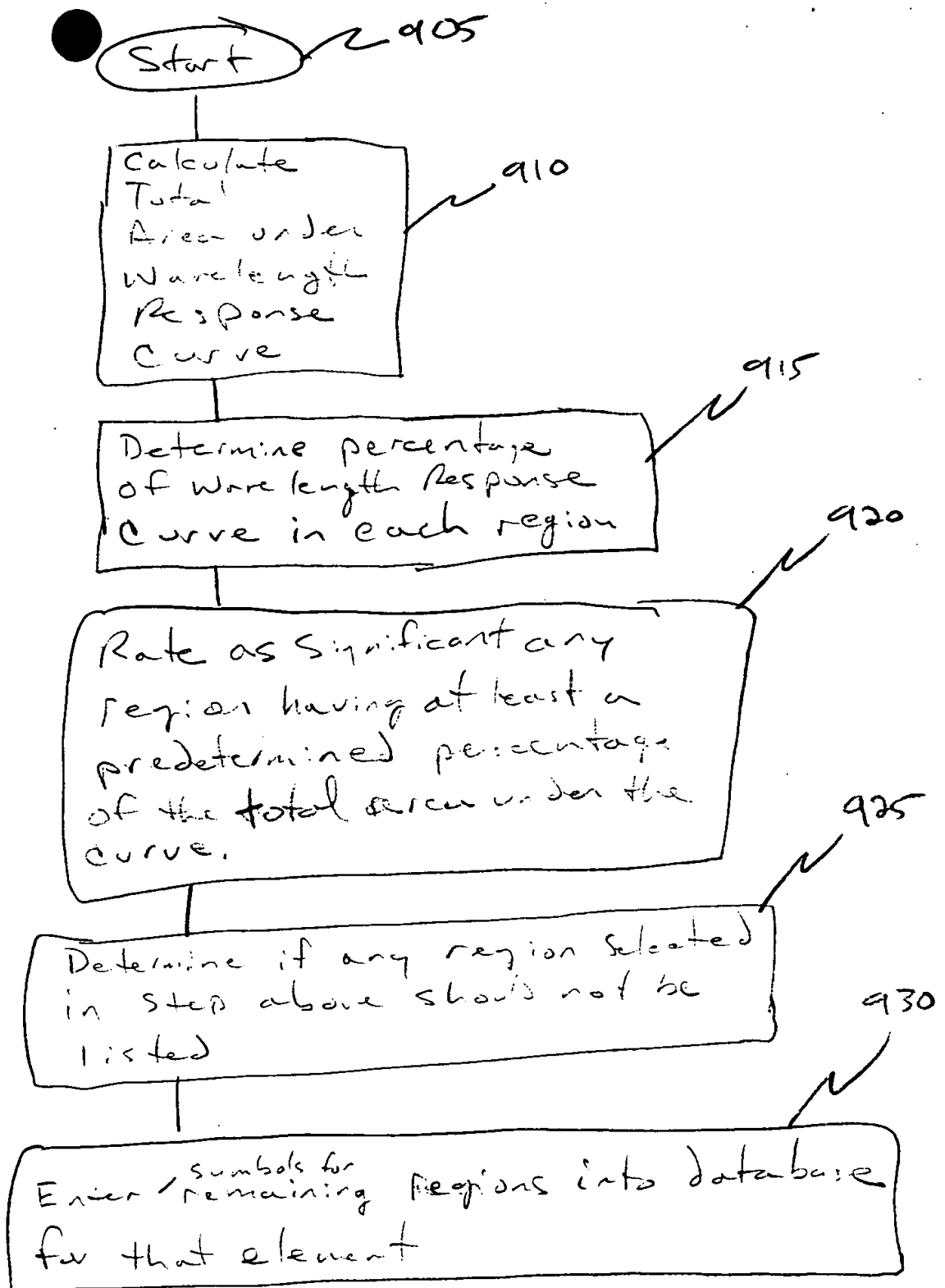


Figure 9

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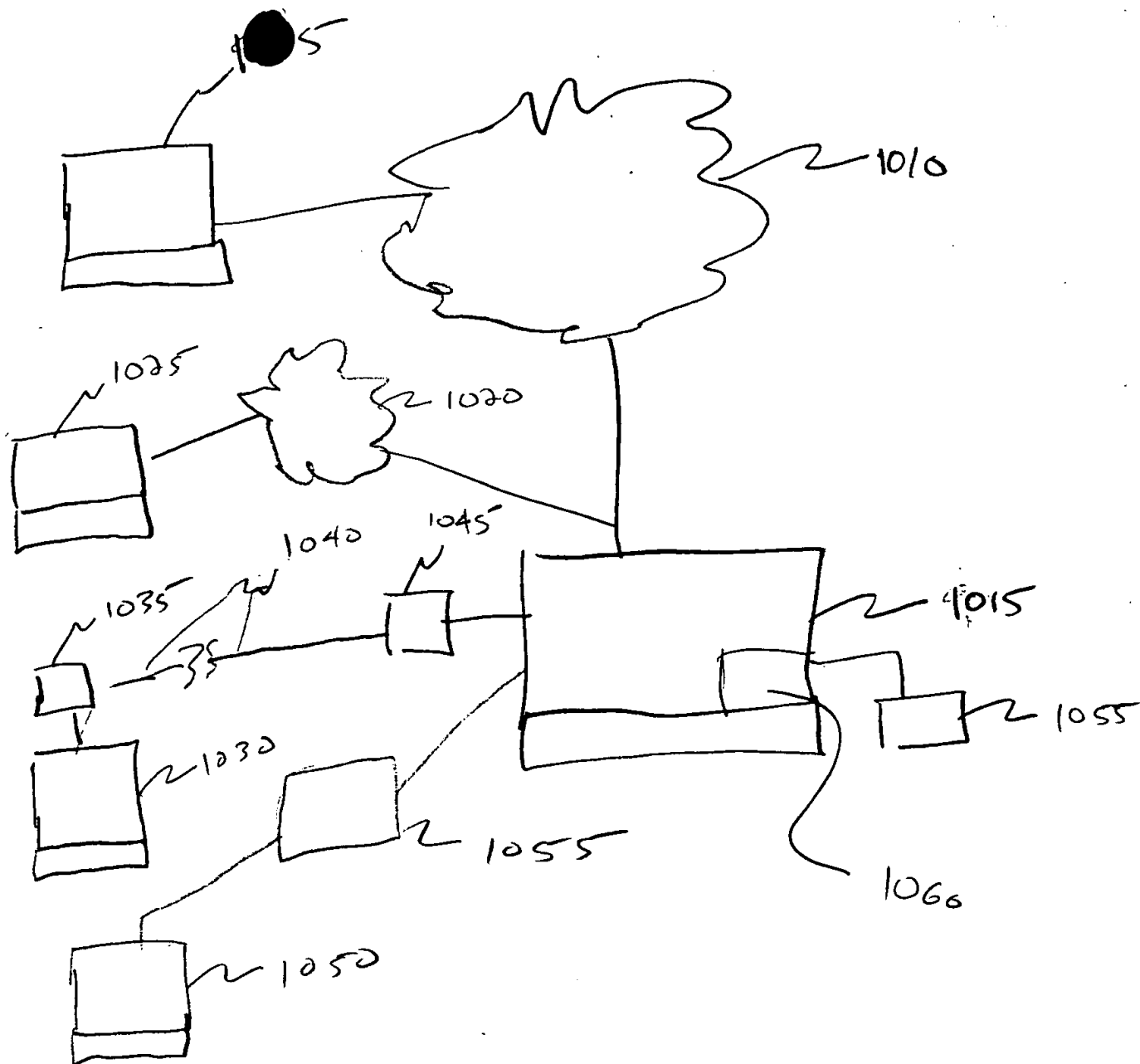


Figure 10

10014390.102201

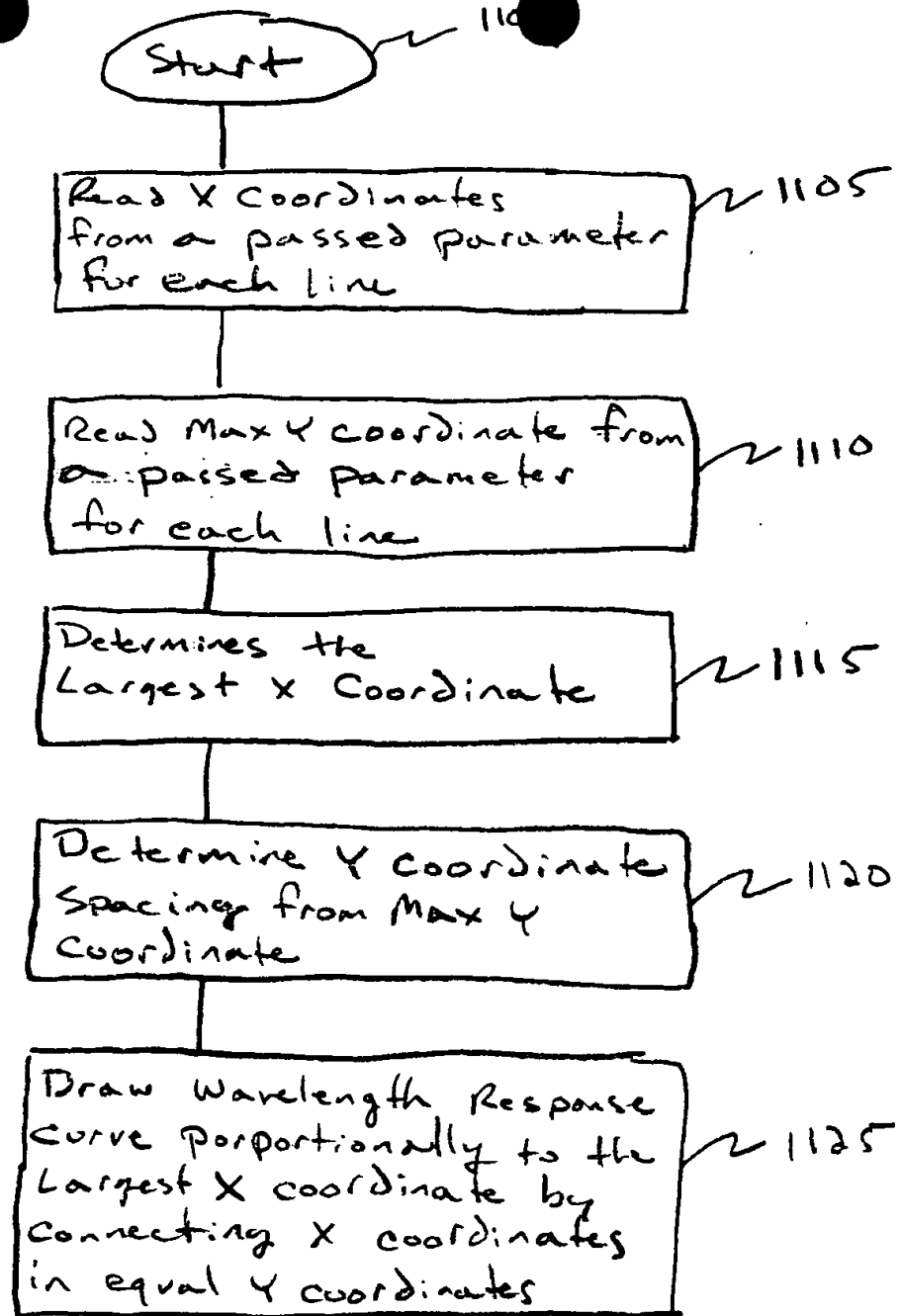


Figure 11